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(21)Application number : 2000-193955 (71)Applicant : TAIHEIYO CEMENT CORP
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(54) HIGH-FLUIDITY HIGH-STRENGTH CONCRETE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide high-fluidity and high-strength concrete, compressive strength of which is manifested by ≥ 70 N/mm² and amount of self-shrinkage can be reduced.

SOLUTION: The high-fluidity and high-strength concrete is characterized in that the main minerals are 3CaO.SiO₂-2CaO.SiO₂-CaO-interstitial material, 3CaO.SiO₂-CaO-interstitial material, 2CaO.SiO₂-CaO-interstitial material, or CaO-interstitial material, and admixture consisting of ground mixture of clinker composition containing 50-92 wt.% CaO crystal and gypsum, or the ground mixture of the clinker composition of quick lime and the gypsum, cement whose weight decreasing quantity is 0.7-2.5 wt.% measured by thermogravimetric measurement from 20°C to 500°C, water reducing agent, fine aggregate, coarse aggregate and water, the total amount of the cement and the admixture is 500-700 kg/m³, the ratio of water/cement is 25-35 wt.%, slump flow value is 50-80 cm.